

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L4    | 3641 | (integrated adj circuit) and spectrometer  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/26 13:55 |
| L5    | 889  | (integrated adj circuit) and spectrometer and grating                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/26 13:55 |
| L6    | 0    | "356""."328,334".ccls. and (integrated adj circuit) and spectrometer and grating | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/26 13:55 |
| L7    | 42   | 356/328,334.ccls. and (integrated adj circuit) and spectrometer and grating      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/26 13:58 |
| L8    | 35   | (photonic adj integrated adj circuit) and spectrometer and grating               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/26 13:58 |
| S1    | 37   | (seng adj tiong).in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/21 12:25 |
| S2    | 334  | 356/328 and curved   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/10 14:49 |
| S3    | 115  | 356/334 and curved   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/10 14:28 |

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|     |     |                                   |   |    |    |                  |
|-----|-----|-----------------------------------|---|----|----|------------------|
| S4  | 17  | S3 not S2                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 14:28 |
| S5  | 73  | 356/328 and curved and grooves    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/19 10:24 |
| S6  | 123 | 356/328 and curv\$3 and grooves   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/19 10:25 |
| S7  | 66  | 356/334 and curv\$3 and grooves   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/19 11:03 |
| S8  | 107 | 356/328,334.ccls. and littrow     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/19 10:25 |
| S9  | 141 | 356/334 and curv\$3 and adjust\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 09:21 |
| S10 | 0   | (seongsik adj chang).in.          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/21 12:25 |
| S11 | 2   | (seongsik with chang).in.         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/21 12:25 |

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|-----|-----|--|---|----|----|------------------|
| S12 | 11  | 356/334 and curv\$3 and (adjust\$4 near (slit aperture detector photodetector photomultiplier))    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 10:34 |
| S13 | 218 | 356/334 and curv\$3 and (adjust\$4 near\$4 (slit aperture detector photodetector photomultiplier)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 12:49 |
| S14 | 27  | 356/334 and curv\$3 and (adjust\$4 near4 (slit aperture detector photodetector photomultiplier))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 09:15 |
| S15 | 70  | 356/328 and curv\$3 and (adjust\$4 near4 (slit aperture detector photodetector photomultiplier))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 09:15 |
| S16 | 247 | 356/334,328.ccls. and curv\$3 and adjust\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 09:31 |
| S17 | 16  | 356/334,328.ccls. and (curv\$3 near grating) and adjust\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 09:31 |
| S18 | 9   | 356/334,328.ccls. and (curv\$3 adj grating) and adjust\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 10:07 |
| S19 | 83  | 356/334,328.ccls. and (curv\$3 with grating) and adjust\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 09:32 |
| S20 | 9   | ("4087183"   "4279511"   "4568187"   "4623251").PN. OR ("4815849").URPN.                           | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/04/24 09:50 |

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|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S21 | 976   | littrow   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/04/24 09:51 |
| S22 | 193   | 356/300-334.ccls. and littrow   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/04/24 09:51 |
| S23 | 1441  | 356/334,328.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 10:07 |
| S24 | 8     | S23 and ((refractiv\$3 near index) with groove)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 10:30 |
| S25 | 12    | ((curv\$5 concave) adj grating) and ((refractiv\$3 near index) with groove)                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 10:12 |
| S26 | 9     | S23 and ((refracti\$3 near index) with groove)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 10:30 |
| S27 | 35240 | ((adjust\$4 or movable or moved or moving) near (slit aperture detector photodetector photomultiplier)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 10:35 |
| S28 | 135   | S23 and S27   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 10:35 |
| S30 | 3867  | (spectrometer spectrograph monochrometer) and (integrated near circuit).                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 11:32 |

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|     |        |   |   |    |    |                  |
|-----|--------|---|---|----|----|------------------|
| S31 | 0      | (spectrometer spectrograph monochrometer) and (photonoi adj integrated adj circuit)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 11:32 |
| S32 | 3830   | (spectrometer spectrograph monochrometer) and (integrated adj circuit)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 11:34 |
| S33 | 44     | S23 and (spectrometer spectrograph monochrometer) and (integrated adj circuit)                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 11:49 |
| S34 | 106    | S21 and S23   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 11:49 |
| S35 | 59     | 356/334 and curv\$3 and (adjust\$4 with (slit aperture detector photodetector photomultiplier))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 12:59 |
| S36 | 130    | 356/334 and curv\$3 and (position\$3 with (slit aperture detector photodetector photomultiplier)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 12:59 |
| S37 | 138683 | (curv\$3 concave) and (position\$3 with (slit aperture detector photodetector photomultiplier))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 13:00 |
| S38 | 454    | S23 and S37   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 13:00 |

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|     |       |  |   |    |    |                  |
|-----|-------|--|---|----|----|------------------|
| S39 | 38176 | (curv\$3 concave) and (position\$3 with (adjust\$4 move\$4 movable) with (slit aperture detector photodetector photomultiplier)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/25 07:51 |
| S40 | 115   | S23 and S39  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 15:46 |
| S41 | 4     | S23 and groove with (path adj difference)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 13:27 |
| S42 | 1441  | 356/334,328.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 15:46 |
| S43 | 38176 | (curv\$3 concave) and (position\$3 with (adjust\$4 move\$4 movable) with (slit aperture detector photodetector photomultiplier)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 15:46 |
| S44 | 115   | S42 and S43  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 15:46 |
| S45 | 28    | S44 and rowland  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 15:55 |
| S46 | 15    | S44 and littrow  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 15:59 |

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|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S47 | 8     | S44 and (integrated adj circuit)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 16:00 |
| S48 | 68    | S42 and (integrated adj circuit)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 16:02 |
| S49 | 0     | S45 and (integrated adj circuit)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 16:02 |
| S50 | 510   | rowland and (integrated adj circuit)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/24 16:02 |
| S51 | 30276 | (curv\$3 concave) and ((adjust\$4 move\$4 movable) with (detector photodetector photomultiplier))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/25 07:52 |
| S52 | 315   | 356/328,334.ccls. and (curv\$3 concave) and ((adjust\$4 move\$4 movable position\$4) with (detector photodetector photomultiplier))             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/25 07:52 |
| S53 | 51    | 356/328,334.ccls. and (curv\$3 concave) and ((adjust\$4 move\$4 movable position\$4) with (detector photodetector photomultiplier)) and rowland | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/25 09:00 |
| S54 | 5     | ("3628849"   "4027975"   "4063818"   "4087183"   "4191474").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/04/25 08:06 |
| S55 | 5     | ("3628849"   "4027975"   "4063818"   "4087183"   "4191474").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/04/25 08:37 |

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|-----|----|--|---|----|----|------------------|
| S56 | 16 | 356/328,334.ccls. and (curv\$3 concave) and ((adjust\$4 move\$4 movable position\$4) with (detector photodetector photomultiplier)) and rowland and motor                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/25 09:08 |
| S57 | 12 | 356/328,334.ccls. and (curv\$3 concave) and ((adjust\$4 move\$4 movable position\$4) with (detector photodetector photomultiplier)) and rowland and housing                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/25 09:22 |
| S58 | 14 | 356/328,334.ccls. and (curv\$3 concave) and ((adjust\$4 move\$4 movable position\$4) with (detector photodetector photomultiplier)) and rowland and integrat\$               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/25 09:23 |
| S59 | 1  | 356/328,334.ccls. and (curv\$3 concave) and ((adjust\$4 move\$4 movable position\$4) with (detector photodetector photomultiplier)) and rowland and (integrated adj circuit) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/25 09:26 |
| S60 | 40 | 356/328,334.ccls. and (curv\$3 concave) and (integrated adj circuit)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/26 13:54 |